PTO/SB/21 (09-04)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

OTRANSMITTAL		Application N	Application Number 09/975,220			
FARM		Filing Date		October 11	1, 2001	
SEP 2 7 2005	۷ı	First Named I	nventor	MAHENDE	RAN	7
A SET Z. LEE		Art Unit		1723		7
(to be list for all or esponde	ence after initial filing)	Examiner Na	me	KIM, Sun l	J.	7
Total Number of Pages in This	Submission	Attorney Doc	ket Number	4320-443		フ
	ENC	LOSURES (check	all that apply)			
Fee Transmittal Form	☐ Drawir	ng(s)		After Allo	owance Communication to TC	
Fee Attached	Licens	ing-related Papers			Communication to Board	
Amendment / Reply	Petitio	n		Appeal C	als and Interferences Communication to TC Notice, Brief, Reply Brief)	
After Final		n to Convert to a ional Application		Proprieta	ary Information	
Affidavits/declaration(s		of Attorney, Revoca ge of Correspondenc		Status L	etter	
Extension of Time Reques	t Termir	Terminal Disclaimer		Other E	nclosure(s) dentify below):	
Express Abandonment Re	Reque	st for Refund			Certificate of Correction	
Express Abandonment Re	CD, N	umber of CD(s)	1	Return Rece	eipt Postcard	
Information Disclosure Sta	itement 🗆	Landscape Table on	CD			╛
Certified Copy of Priority Document(s)	Remarks				C -	
Reply to Missing Parts/					OBITITICA !-	
Incomplete Application					SEP 2	
Reply to Missing Part under 37 CFR1.52 or	1				Certificate SEP 2 9 2006 of Cerrection	
	SIGNATURE C	F APPLICANT, A	TTORNEY, OF	AGENT	Olfection	
Firm	Bereskin &	Parr			•	
Signature	Sco	Kirdszak	1			
Printed Name						
Date	September	25, 2006	Reg. No.	47,330		
	CERTIFI	CATE OF TRANS	MISSION/MAIL	ING		\supset
	ge as first class ma	il in an envelope a			with the United States Posta for Patents, P.O. Box 1450	
Signature						
Typed or printed name				Date		

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/17 (01-06) Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).				Complete if Known			
			_	Application Num		09/975,220	
FEE TR	KANS	MILTA		Filing Date October 11, 2001)1	
Fo	r FY 2	006		First Named Inv		MAHENDRAN 6	
				Examiner Name		KIM, Sun U.	
Applicant claims sma	II entity status	. See 37 CFR 1.27		Art Unit		1723	
TOTAL AMOUNT OF PA	YMENT (\$)	100.00	f	Attorney Docket		4320-443	
METHOD OF PAYMEN	IT (check all	that apply)				. 188	
			٦				
	Check Credit Card Money Order Other (please identify):						
Deposit Account			2095	Deposit Ac			reskin & Parr
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)							
Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee							
Charge any additional fee(s) or underpayments of fee(s)							
under 37 CF WARNING: Information on the	R 1.16 and 1.		naed info		•		Drovido aradit card
information and authorizatio	n on PTO-2038		caru iiiio	mation should no	ot be inc	uded on this form.	Provide credit card
FEE CALCULATION (All the fees	below are due u	pon fili	ng or may be	subjec	t to a surcharge	e.)
1. BASIC FILING, SEA	RCH, AND	EXAMINATION F	EE\$				
	FILING		SEAR	CH FEES	EXAN	INATION FEES	3
Application Type	Fee (\$)	imall Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee	Small Entity (\$) Fee (\$)	Fees Paid (\$)
Utility	300	150	500	250	200		
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	48.71
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
2. EXCESS CLAIM FE	ES					F (#)	Small Entity
Fee Description Each claim over 20	(including D	aiccuae)				<u>Fee (\$)</u> 50	<u>Fee (\$)</u> 25
Each independent cl			(25			200	100
Multiple dependent		moraumg recissue	,,,			360	180
Total Claims	Extra Clair	ns <u>Fee (\$)</u>	Fee	Paid (\$)			Dependent Claims
- 20 or HP =		_ x	=			Fee (\$)	Fee Paid (\$)
HP = highest number of tot	•	. •	F 1	D-1-1 /#\			
Indep. Claims - 3 or HP =	Extra Clain	ns <u>Fee(\$)</u> x :	<u> </u>	Paid (\$)			
HP = highest number of ind	ependent claims		n 3.				
3. APPLICATION SIZE If the specification an	FEE	exceed 100 sheets	of pap	er (excluding e	electron	ically filed sequ	ence or computer
							or each additional 50
sheets or fraction t	hereof. See	35 U.S.C. 41(a)(1)(G) a	nd 37 CFR 1.1	6(s).		
Total Sheets	Total Sheets						

SUBMITTED BY			
Signature	Seas findant	Registration No. (Attomey/Agent) 47,330	Telephone (416) 364-7311
Name (Print/Type	Scott Pundsack		Date September 25, 2006

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Certificate of Correction

4. OTHER FEE(S)

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Fees Paid (\$)

100.00

PTO/SB/17 (01-06) Approved for use through 07/31/2006. OMB 0651-0032

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1993 are required to respond to a collection of information unless it displays a valid OMB control number

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).			Complete if Known						
				Application	Number	09/975,2	20		
	ETRAN	121/11	IIAL	Filing Date		October	11, 2001		
	For FY	2006		First Named	First Named Inventor MAHENDRAN et al.		ıl.		
Applicant o	laims small entity s	tatus Soc 3	7 CED 1 27	Examiner N	Examiner Name KIM, Sun U.				
<u> </u>		1	07 CFR 1.27	Art Unit		1723			
TOTAL AMOUN	IT OF PAYMENT	(\$)	100.00	Attorney Do	cket No.	4320-443	3		
METHOD OF PAYMENT (check all that apply)									
✓ Check	Credit Card	Money	Order No	ne Othe	PF (nlease ide	entify)'			
Denosit A	Check Card Money Order Other (please identify): Deposit Account Deposit Account Number: Deposit Account Name: Deposit Account Name: Deposit Account Name:								
	bove-identified dep		·· <u> </u>	Depo.				Mill & Lan	
	arge fee(s) indicate		,						
			adornavments of f	(-)	• , ,			ept for the filing	g tee
Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17									
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
FEE CALCUL	ATION (All the f	ees below	are due upon f	filing or may	be subjec	t to a su	rcharge.)		
1. BASIC FILI	NG, SEARCH, A	ND EXAM	NATION FEES		•				
		NG FEES	SEA	RCH FEES		MINATION			
Application	Type Fee (<u>Small Er</u> \$)		Small Entit \$) Fee (\$)	Y <u>Fee</u>		Entity (\$)	Fees Pald	(\$)
Utility	300		500	250	200			-	
Design	200	100	100	50	130		55		_
Plant	200	100	300	150	160		30		
Reissue	300	150	500	250	600	30	0		
Provisional	200	100	0	0	()	0		
2. EXCESS C						_		Small Entity	
Fee Descripti	<u>on</u> over 20 (includir	a Daigana	-)			<u> </u>	ee (\$) 50	Fee (\$) 25	
	endent claim ove						200	100	
	pendent claims	i 5 (incida	ing iceissues)				360	180	
Total Claims	•	Claims	Fee (\$) Fe	e Pald (\$)		м		endent Claims	
	20 or HP =	x _					Fee (\$)	Fee Paid (\$	
-	mber of total claims p					_			•
Indep. Claims	<u>Extra (</u> 3 or HP =		Fee (\$) Fe	<u>e Paid (\$)</u>				-	-
	mber of independent of	x claims paid for	, if greater than 3.						
3. APPLICATI	ON SIZE FEE		100 1	(1 1	1 .				
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50									
sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)									
100 = / 50 = (round up to a whole number) x =									
4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount) Fees Paid (\$)									
Other (e.g.,	Other (e.g., late filing surcharge): Certificate of Correction 100.00								
SUBMITTED BY									=
Signature	Sport Com	esse	-	Registration N			Telephone	(416) 364-7	311
-	(P / Od (V	~87-7		(Attorney/Agent) 77,000		L	· · ·	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Name (Print/Type)

Scott Pundsack

Date September 25, 2006

Bereskin & Parr

INTELLECTUAL PROPERTY LAW

Patent No

RE39.294

Reissued

September 19, 2006

Appl. No

09/975,220

Applicant Filed

Mahendran et al. October 11, 2001

Title

VERTICAL SKEIN OF HOLLOW FIBER MEMBRANES AND

confirmation No.: 7794

METHOD OF MAINTAINING CLEAN FIBER SURFACES WHILE FILTERING A SUBSTRATE TO WITHDRAW A

PERMEATE

TC./A.U.

1723

Examiner

KIM, Sun U.

Docket No.

4320-443

Customer No.

001059

Certificate of Correction Branch Honorable Commissioner for Patents P. O. Box 1450 Alexandria, Virginia 22313–1450 September 25, 2006

REQUEST FOR CERTIFICATE OF CORRECTION

09/28/2006 LWONDIM1 00000022 RE39294

UNDER 35 U.S.C. 254 and 255

01 FC:1811

100.00 OP

Dear Sir:

In accordance with the provisions of 35 U.S.C. 254 and 255, the Patentee herein through his Attorney respectfully requests that a Certificate of Correction be issued in the above-referenced Patent. Patentee hereby requests that:

In the Front Pages

In the References Cited, "U.S. PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

Patent No.

Date:

Name

5,403,479

4/1995

Smith et al.

5,480,553

1/1996

Yamamori et al.

5,607,593

3/1997

Cote et al.

RE37,549

02/2002

Mahendran et al.

Manulife Corporate Park, 6733 Mississauga Road, Suite 600, Mississauga, Ontario L5N 6J5

Tel: 905.812.3600 Fax: 905.814.0031 www.bereskinparr.com

TORONTO MISSISSAUGA WATERLOO MONTREAL

OCT - 2 2005

Amdt. Dated September 22, 2006

5,209,852	05/1993	Sunsoka et al.
4,756,875	07/1988	Tajima et al.
4,775,471	10/1988	Nagai et al.
4,075,100	02/1978	Furuta et al.
4,605,500	08/1986	Takemura et al.
4,707,268	11/1987	Shah et al.
4,876,006	10/1989	Ohkubo et al.
4,886,601	12/1989	lwatsuka et al.
4,915,833	04/1990	lwatsuka et al.
5,151,191	09/1992	Sunaoka et al.
5,192,456	03/1993	Ishida et al.
5,584,997	12/1997	Yagihashi et al.
5,643,455	07/1997	Kopp et al.
5,647,988	07/1997	Kawanishi et al.
5,451,317	09/1995	Ishida et al.
5,366,625	11/1994	Pedersen et al.
5,639,373	06/1997	Mahendran et al.
6,156,200	12/2000	Zha et al.

In the References Cited, "FOREIGN PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

Country Code	Document No.	Date
JP	61-107905	5/1986
JP	62-201610	9/1987
JP	63-143905	6/1988
SU	1,692,626	11/1991
EP	0 598 909 A1	06/1994
JP	61-192309	08/1986
JP	06-343837	12/1994
JP	04-247295	09/1992

Amdt. Dated September 22, 2006

WO	WO 98/28066	07/1998
EP	0734758	10/1996
WO	WO 96/07470	03/1996
WO	WO 93/23152	11/1993
JP	07-000770	01/1995
JP	02-164423	06/1990
JP	62-114609	05/1987
JP	62-004408	01/1987
JP	04-180821	06/1992
JP	04-197487	07/1992
JP	02-293093	12/1990
JP	07-136470	05/1995
JP	08-215548	08/1996
JP	S63-38884	10/1988
JP	07-024272	01/1995
JP	03-131324	06/1991
JP	07-185268	07/1995
JP	05-285349	11/1993
JP	62-250908	10/1987

In the References Cited, "OTHER PUBLICATIONS" section, spanning pages 1 and 2, the following references be added:

English translated abstract for Japanese Patent No. 63-143,905 issued June, 1998.

English language abstract of JP 61-192309

English language translation of JP 63-143,905

English language abstract of JP 06-343837

English language abstract of JP 04-247295

English language abstract of JP 07-000770

English language abstract of JP 02-164423

English language abstract of JP 62-114609

Amdt. Dated September 22, 2006

English language abstract of JP 62-004408

English language abstract of JP 04-180821

English language abstract of JP 04-197487

English language abstract of JP 02-293093

English language abstract of JP 07-136470

English language abstract of JP 08-215548

English language abstract of JP 61-107905

English language abstract of JP 07-024272

English language abstract of JP 03-131324

English language abstract of JP 62-201610

English language abstract of JP 07-185268

English language abstract of JP 05-285349

English language abstract of JP 62-250908

English language abstract of SU 1692626

"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. Yamamoto; M. Hiasa; T. Mahmood and T. Matsuo; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).

"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. Chiemchaisri, Y.K. Wong, T. Urase and K. Yamamoto, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992

"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)

"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAISRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)

"Organic wastewater treatment by activated sludge process using integrated type membrane separation", by FUTAMURA et al. Proceedings IDA and WRPC World Conference on Desalination and Water Treatment, November 1993, Vol. 1, pp 223-230

"Integrated membrane-filtration activated-sludge wastewater treatment system", by ONISHI and FUTAMURAProceedings 1994 MIE International Forum and Symposium on Global Environment and Friendly energy Technology, pp 365-368

"Integrated membrane filtration activated sludge wastewater treatment system", International Symposium on Fibre Science and Technology (ISF'94), Yokohama, October, 1994

'CT - 2 2006

- 3 M

Amdt. Dated September 22, 2006

ZeeWeed 145 Product Data Sheet

In the Claims

In claim 23, line 16, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 23, line 20, delete "permeate-collection" and substitute --permeate collection--.

In claim 23, line 35, delete "between".

In claim 25, column 33, line 64, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 25, column 34, line 3, delete "permeate-collection" and substitute -- permeate collection--.

In claim 25, column 34, line 18, delete "between".

In claim 26, line 44, delete the first and second instance of "a," and substitute -- said-- for each instance.

In claim 26, line 48, delete "permeate-collection" and substitute --permeate collection--.

In claim 26, line 63, delete "between".

In claim 29, column 35, line 32, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 29, column 35, line 36, delete "permeate-collection" and substitute -- permeate collection--.

In claim 29, column 36, line 7, delete "between".

三、海外鄉 瑪

Patent No. RE39,294

Appl. No. 09/975,220

Amdt. Dated September 22, 2006

Remarks

The errors in the References Cited section were an omission on the part of the

Patent Office. Some of the omitted references were submitted by the Applicants

in an Information Disclosure Statement filed on November 22, 2002, considered

by the Examiner on January 14, 2004 and returned to the Applicants with an

Office Action mailed March 20, 2003. Copies of this Office Action and initialed

Information Disclosure Statement are attached to this request. The Applicants

note that these documents are also not contained in the Image File Wrapper for

this application and request that they be added to the Image File Wrapper. The

remainder of the omitted references were listed on a Notice of References Cited

prepared by the Examiner on form PTO-892, copy attached, which was enclosed

with an Office Action mailed July 23, 2002.

The errors in the claims were caused by the Applicants. The initial portion of

claims 23, 25, 26 and 29 were copied from claim 1 and should be the same as

claim 1. However, the errors to be corrected were made.

The Patentee submits that the errors in the claims relate to minor typographical

mistakes which occurred in good faith. The Applicants further submit that

correction of the errors will not introduce new matter or require re-examination.

A Certificate of Correction incorporating the above changes is enclosed herewith

in duplicate.

The government fee of \$100.00 is included in our firm's cheque. If additional fees

are required, the Commissioner is herby authorized to charge the fees to our

Deposit Account No. 02-2095.

- 2 2003°

6

Amdt. Dated September 22, 2006

The Applicants respectfully request that a timely Certificate of Correction be issued in this case.

Respectfully submitted,

Mahendran et al.

Scott Pundsack

Reg. No. 47,330

Tel: (416) 957-1698



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	7
09/975,220	10/11/2001	Mailvaganam Mahendran	ZEN-9501RE-A	7794	•
1059 75	90 03/20/2003		,		
BERESKIN A	••		EXAM	INER	7
SCOTIA PLAZ 40 KING STRF	A ET WEST-SUITE 4000	0 BOX 401	KIM, S	UN U	_
TORONTO, ON					٦.,
CANADA			ART UNIT	PAPER NUMBER] / (
		< UB/	1723		
	•		DATE MAILED: 03/20/2003		
	\ 7 '	10 /			
	الم	Y - /			

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED

APR 0 1 2003

BERESKIN & PARR

Office Action Surface

Application No. 09/975,220 Applicant(s)

Examiner

Art Unit 1723

Mahendran et al.

John Kim -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. . If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any 2.0. Ent. June, 20, 2003. 3.C earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on <u>11/21/02</u>, 1/29/03, 2/6/03 2a) X This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims is/are pending in the application. 4) X Claim(s) 1-30 4a) Of the above, claim(s) is/are withdrawn from consideration. is/are allowed. 5) (Claim(s) 6) 💢 Claim(s) 1-30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claims are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)□ The drawing(s) filed on ______ is/are a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11)□ The proposed drawing correction filed on _______ is: a)□ approved b)□ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) \square The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 4) Interview Summary (PTO-413) Paper No(s). 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) X Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6 6) Other:

Art Unit: 1723

1. The specification is objected to because of the following:

If applicant files more than one application for the reissue of a single patent, each such application must contain or be amended to contain in the first sentence of the specification a notice stating that more than one reissue application has been filed and identifying each of the reissue applications by relationship, application number and filing date. See 37 CFR 1.177(a). Suggested notice is as follows:

"Application 09/975,220 filed October 11, 2001, and copending application 09/333,669 filed June 15, 1999, are each reissues of U.S. Patent No. 5,639,373 (Application No. 08/514,119 filed August 11, 1995)."

Appropriate correction is required.

- 2. The terminal disclaimer filed on 11/21/02 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent No. 5,783,083 and RE37,549 and any patent granted on pending Application No. 09/621,234 and Application No. 09/849,573 and Application No. 10/178,838 has been reviewed and is accepted. The terminal disclaimer has been recorded.
- 3. In accordance with 37 CFR 1.175(b)(1), a supplemental reissue oath/declaration under 37 CFR 1.175(b)(1) must be received before this reissue application can be allowed.

Claims 1-30 are rejected as being based upon a defective declaration under 35 U.S.C. 251.

See 37 CFR 1.175. The nature of the defect is set forth above.

Application/Control Number: 09/975220 Page 3

Art Unit: 1723

Receipt of an appropriate supplemental oath/declaration under 37 CFR 1.175(b)(1) will overcome this rejection under 35 U.S.C. 251. An example of acceptable language to be used in the supplemental oath/declaration is as follows:

"Every error in the patent which was corrected in the present reissue application, and is not covered by a prior oath/declaration submitted in this application, arose without any deceptive intention on the part of the applicant."

- 4. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.
- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Page 4

Application/Control Number: 09/975220

Art Unit: 1723

Any inquiry concerning this communication or earlier communications from the examiner 6. should be directed to John Kim whose telephone number is (703) 308-2350. The examiner can normally be reached on weekdays from 7:00 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can be reached on (703) 308-0457. The fax phone number for official response after final action is (703) 872-9311, and the fax phone number for all other official faxes is (703) 872-9310.

When sending a draft amendment by fax, please mark the paper as "DRAFT"; otherwise, mark the paper "OFFICIAL". This will expedite the processing of the paper.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

> **Primary Examiner** Art Unit 1723

J. Kim February 21, 2003 #

PTO/SB/08A (10-01) Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995 to persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

4

Sheet

Complete if Known			
Application Number	09/975,220		
Filing Date October 11, 2001			
First Named Inventor	MAHENDRAN		
Group Art Unit	1723		
Examiner Name	KIM, Sun U		
Attorney Docket Number	4320-443		

U.S. PATENT DOCUMENTS						
Examiner Cite		Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant	
Initials *	No.1	Number - Kind Code ² (if known)	MM-DD-YYYY	0.000 0000.000	Passages or Relevant Figures Appear	
JK		US-RE37,549	Feb 19, 2002	Mahendran et al.		
1	ĺ	US-5,209,852	May 11, 1993	Sunsoka et al.		
		US-4,756,875	Jul 12, 1988	Tajima et al.		
		US-4,775,471	Oct 4, 1988	Nagai et al.		
		US-4,075,100	Feb 21, 1978	Furuta et al.		
		US-4,605,500	Aug 12, 1986	Takemura et al.		
		US-4,707,268	Nov 17, 1987	Shah et al.		
		US-4,876,006	Oct 24, 1989	Ohkubo et al.		
	1	US-4,886,601	Dec 12, 1989	lwatsuka et al.		
		U\$-4,915,833	Apr 10, 1990	lwatsuka et al.		
		US-5,151,191	Sep 29, 1992	Sunaoka et al.		
		US-5,192,456	Mar 9, 1993	Ishida et al.	***	
		US-5,584,997	Dec 17, 1997	Yagihashi et al.		
		US-5,643,455	Jul 1, 1997	Kopp et al.		
		US-5,647,988	Jul 15, 1997	Kawanishi et al.		
	1	US-5,451,317	Sep 19, 1995	Ishida et al.		
		US-5,366,625	Nov 22, 1994	Pedersen et al.		
	Ì	US-5,639,373	June 17, 1997	Mahendran et al.		
JK		US-6,156,200	Dec 5, 2000	Zha et al.	Lance of the second of the se	

		FOREIGN PATE	ENT DOCUMEN	ITS		
		Foreign Patent Document			Pages, Columns,	
Examiner Initials* Cite No.1 Country Code3 - Number4 - Kind Code5 (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Lines, Where Relevant Passages or Relevant Figures Appear	۳⁵	
JK		EP 0 598 909 A1	June 1, 1994	Yamamori et al.		
1		JP 62-144712	June 27, 1987	Yuichi et al.		
		English language abstract of JP 62-144712				
		JP 61-192309	Aug 26, 1986	Toshiaki		
		English language abstract of JP 61-192309				
		JP 63-143905	June 16, 1988	Kunio et al.		1
		English language translation of JP 63-143905				
		JP 06-343837	Dec 20, 1994	Giichi		
	<u>† </u>	English language abstract of JP 06-343837				
	İ	JP 04-247295	Sep 3, 1992	Osamu et al.		
JK	T	English language abstract of JP 04-247295				

	Date Considered 1/14/03
--	-------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional) . ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901,04. ³ Enter Office that issued the document, by the two-letter code (MPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known			
INFO	RMATION	I DIS	CLOSURE	Application Number	09/975,220		
STATEMENT BY APPLICANT				Filing Date	October 11, 2001		
JIA		<i>,</i> , , , ,	LIOAN	First Named Inventor	MAHENDRAN		
				Group Art Unit	1723		
_	(use as many si	heets as	necessary)	Examiner Name	KIM, Sun U		
Sheet	2	of	4	Attorney Docket Number	4320-443		

	U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant			
Initials *	No.1	Number - Kind Code ² (if known)	MM-DD-YYYY	Cited Document	Passages or Relevant Figures Appear			
	ļ							
	<u> </u>							
	1							

		FOREIGN PAT	ENT DOCUME	NTS				
Examiner Initials*	Cite No.1			Publication Date		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°
JŁ		WO 98/28066	Jul 2, 1998	Memtec America Corp.				
		EP 0734758	Oct 2, 1996	Mitsuipetro chemical Industries Ltd				
		WO 96/07470	Mar 14, 1996	Memtec Limited				
		WO 93/23152	Nov 25, 1993	Minntech Corp.				
		JP 07-000770	Jan 6, 1995	Toshiba Corp				
1		English language abstract of JP 07-000770						
	1	JP 02-164423	Jun 25, 1990	Toshiba Corp				
	1	English language abstract of JP 02-164423						
		JP 62-114609	May 26, 1987	Ebara Corp				
		English language abstract of JP 62-114609						
		JP 62-004408	Jan 10, 1987	Toshiba Corp				
JK		English language abstract of JP 62-004408	1					

	,		
Examiner Signature	This	Date Considered	1/14/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (MPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO Complete if Known Application Number 09/975,220 INFORMATION DISCLOSURE Filing Date October 11, 2001 STATEMENT BY APPLICANT First Named Inventor **MAHENDRAN Group Art Unit** 1723 (use as many sheets as necessary) **Examiner Name** KIM, Sun U 4320-443 Sheet 3 of Attorney Docket Number

		FOREIGN PA	TENT DOCUME	NTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
Jk		JP 04-180821	June 29, 1992	Giichi et al.		
		English language abstract of JP 04-180821				
		JP 04-197487	July 17, 1992	Noboru et al.		
		English language abstract of JP 04-197487	12/1990			
		JP 02-293093	12/1990 1May 0, 1980	Hidenori et al.		
		English language abstract of JP 02-293093	511995			
		JP 07-136470	Nov 12, 1993	Kenji et al.		1
	Î	English language abstract of JP 07-136470				
	1	JP 08-215548	Aug 27, 1996	Kenji et al.		1
		English language abstract of JP 08-215548				
	1	JP 61-107905	May 26, 1986	Makoto		
		English language abstract of JP 61-107905				
		JP 62-004408	Jan 10, 1987	Tomohiko		
		English language abstract of JP 62-004408	1011000			
		JP S63-38884	101 1988 1 July 8, 1886	Kikuchi		1
		JP 07-024272	Jan 27, 1995	Masumi et al.		
		English language abstract of JP 07-024272				
		JP 03-131324	June 4,1991	Satoshi et al.		
		English language abstract of JP 03-131324				
		JP 62-201610	Sep 9, 1987	Yukio		
		English language abstract of JP 62-201610				
		JP 07-185268	July 25, 1995	Kashi et al.		1
		English language abstract of JP 07-185268				
		JP 05-285349	Nov 2, 1993	Tetsuro et al.		1
	T	English language abstract of JP 05-285349				
		JP 62-250908	Oct 31, 1987	Yokoyama		
		English language abstract of JP 62-250908			7	
	T	SU 1692626	Nov 23, 1991	Gimranov et al.		1
JK		English language abstract of SU 1692626				

Examiner Signature	Olim	Date Considered	1/14/03	
-----------------------	------	--------------------	---------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (MPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO	Complete if Known			
INCORMATION DISCLOSURE	Application Number	09/975,220		
INFORMATION DISCLOSURE	Filing Date	October 11, 2001		
STATEMENT BY APPLICANT	First Named Inventor	MAHENDRAN		
	Group Art Unit	1723		
(use as many sheets as necessary)	Examiner Name	KIM, Sun U		
Sheet 4 of 4	Attorney Docket Number	4320-443		

Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
JK		"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. YAMAMOTO; M. HIASA; T. MAHMOOD AND T. MATSUO; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).	
		"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. CHIEMCHAISRI, Y.K. WONG, T. URASE AND K. YAMAMOTO, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992	
		"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)	
		"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAISRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)	
		"Organic wastewater treatment by activated sludge process using integrated type membrane separation", by FUTAMURA et al. Proceedings IDA and WRPC World Conference on Desalination and Water Treatment, November 1993, Vol. 1, pp 223-230	
		"Integrated membrane-filtration activated-sludge wastewater treatment system", by ONISHI and FUTAMURAProceedings 1994 MIE International Forum and Symposium on Global Environment and Friendly energy Technology, pp 365-368	
		"Integrated membrane filtration activated sludge wastewater treatment system", International Symposium on Fibre Science and Technology (ISF'94), Yokohama, October, 1994	
JK		ZeeWeed 145 Product Data Sheet (1994)	
			<u> </u>

Examiner Signature	Jkim	Date Considered	1/14/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional) . ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (MIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Notice of References Cited

Application/Control No. 09/975,220	licant(s)/Paten Mahend	it Under Reexam ran et al.
Examiner	Art Unit	
John Kim	1723	Page 1 of 1

U.S. PATENT DOCUMENTS

_	C.G. TATAN DOGGMENTO										
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY¹	Name	Cla	ssification ²					
×	A	3,708,071	1/1973	Crowley et al.	210	500.23					
x	В	4,647,377	3/1987	Miura et al.	210	500.23					
x	С	5,248,424	9/1,993	Cote et al.	210	636					
x	D	5,403,479	4/1995	Smith et al.	210	636					
x	Ε	5,480,553	1/1996	Yamamori et al.	210	650					
x	F	5,607,593	3/1997	Cote et al.	210	650					
	G										
	Н			·							
	١										
	J										
	к		<u> </u>								
	L			·							
	м										

FOREIGN PATENT DOCUMENTS

•		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Clas	Classification ²		
x	2	61-107905	5/1986	Japan	***************************************	210	500.23		
x	0	62-201610	9/1987	Japan		210	500.23		
x	P	63-143905	6/1988	Japan			*****		
x	a	1,692,626	11/1991	Soviet Union		210	500.23		
	R								
	s								
	Т								

NON-PATENT DOCUMENTS

*		Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
×	υ	English translated abstract for Japanese Patent No. 63-143,905 issued June, 1988.
	v	
	*	
	x	

^{*} A copy of this reference is not being furnished with this Office action. See MPEP \$ 707.05(a). 1:Dates in MM-YYYY format are publication dates.

² Classifications may be U.S. or foreign,

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: RE39,294

Page 1 of 6

APPLICATION NO.: 09/975,220
ISSUE DATE: September 19, 2006
INVENTOR(S): MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "U.S. PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

Patent No.	Date:	Name
5,403,479	4/1995	Smith et al.
5,480,553	1/1996	Yamamori et al.
5,607,593	3/1997	Cote et al.
RE37,549	02/2002	Mahendran et al.
5,209,852	05/1993	Sunsoka et al.
4,756,875	07/1988	Tajima et al.
4,775,471	10/1988	Nagai et al.
4,075,100	02/1978	Furuta et al.
4,605,500	08/1986	Takemura et al.
4,707,268	11/1987	Shah et al.
4,876,006	10/1989	Ohkubo et al.
4,886,601	12/1989	lwatsuka et al.
4,915,833	04/1990	lwatsuka et al.
5,151,191	09/1992	Sunaoka et al.
5,192,456	03/1993	Ishida et al.
5,584,997	12/1997	Yagihashi et al.
5,643,455	07/1997	Kopp et al.
5,647,988	07/1997	Kawanishi et al.
5,451,317	09/1995	Ishida et al.
5,366,625	11/1994	Pedersen et al.
5,639,373	06/1997	Mahendran et al.
6,156,200	12/2000	Zha et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr Box 401, 40 King Street West Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: RE39,294

Page <u>2</u> of <u>6</u>

APPLICATION NO.: 09/975,220
ISSUE DATE: September 19, 2006
INVENTOR(S): MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "FOREIGN PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

Country Code	Document No.	Date
JP	61-107905	5/1986
JP	62-201610	9/1987
JP	63-143905	6/1988
SU	1,692,626	11/1991
EP	0 598 909 A1	06/1994
JP	61-192309	08/1986
JP	06-343837	12/1994
JP	04-247295	09/1992
WO	WO 98/28066	07/1998
EP	0734758	10/1996
WO	WO 96/07470	03/1996
WO	WO 93/23152	11/1993
JP	07-000770	01/1995
JP	02-164423	06/1990
JP	62-114609	05/1987
JP	62-004408	01/1987
JP	04-180821	06/1992
JP	04-197487	07/1992
JP	02-293093	12/1990

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr Box 401, 40 King Street West Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: RE39,294

Page 3 of 6

APPLICATION NO.: 09/975,220
ISSUE DATE: September 19, 2006
INVENTOR(S): MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "FOREIGN PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

JP	07-136470	05/1995
JP	08-215548	08/1996
JP	S63-38884	10/1988
JP	07-024272	01/1995
JP	03-131324	06/1991
JP	07-185268	07/1995
JP	05-285349	11/1993
JP	62-250908	10/1987

In the References Cited, "OTHER PUBLICATIONS" section, spanning pages 1 and 2, the following references be added:

English translated abstract for Japanese Patent No. 63-143,905 issued June, 1998.

English language abstract of JP 61-192309

English language translation of JP 63-143,905

English language abstract of JP 06-343837

English language abstract of JP 04-247295

English language abstract of JP 07-000770

English language abstract of JP 02-164423

English language abstract of JP 62-114609

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr Box 401, 40 King Street West Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: RE39,294

Page 4 of 6

APPLICATION NO.: 09/975,220
ISSUE DATE: September 19, 2006
INVENTOR(S): MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "OTHER PUBLICATIONS" section, spanning pages 1 and 2, the following references be added:

English language abstract of JP 62-004408

English language abstract of JP 04-180821

English language abstract of JP 04-197487

English language abstract of JP 02-293093

English language abstract of JP 07-136470

English language abstract of JP 08-215548

English language abstract of JP 61-107905

English language abstract of JP 07-024272

English language abstract of JP 03-131324

English language abstract of JP 62-201610

English language abstract of JP 07-185268

English language abstract of JP 05-285349

English language abstract of JP 62-250908

English language abstract of SU 1692626

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr Box 401, 40 King Street West Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : RE39,294

Page <u>5</u> of <u>6</u>

APPLICATION NO.: 09/975,220
ISSUE DATE: September 19, 2006
INVENTOR(S): MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "OTHER PUBLICATIONS" section, spanning pages 1 and 2, the following references be added:

"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. Yamamoto; M. Hiasa; T. Mahmood and T. Matsuo; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).

"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. Chiemchaisri, Y.K. Wong, T. Urase and K. Yamamoto, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992

"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)

"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAISRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)

"Organic wastewater treatment by activated sludge process using integrated type membrane separation", by FUTAMURA et al. Proceedings IDA and WRPC World Conference on Desalination and Water Treatment, November 1993, Vol. 1, pp 223-230

"Integrated membrane-filtration activated-sludge wastewater treatment system", by ONISHI and FUTAMURAProceedings 1994 MIE International Forum and Symposium on Global Environment and Friendly energy Technology, pp 365-368

"Integrated membrane filtration activated sludge wastewater treatment system", International Symposium on Fibre Science and Technology (ISF'94), Yokohama, October, 1994

ZeeWeed 145 Product Data Sheet

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr Box 401, 40 King Street West Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: RE39,294

Page 6 of 6

APPLICATION NO.: 09/975,220
ISSUE DATE: September 19, 2006
INVENTOR(S): MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In claim 23, line 16, delete the first and second instance of "a," and substitute -said-- for each instance.

In claim 23, line 20, delete "permeate-collection" and substitute -permeate collection-.

In claim 23, line 35, delete "between".

In claim 25, column 33, line 64, delete the first and second instance of "a," and substitute -said-- for each instance.

In claim 25, column 34, line 3, delete "permeate-collection" and substitute –permeate collection—. In claim 25, column 34, line 18, delete "between".

In claim 26, line 44, delete the first and second instance of "a," and substitute -said-- for each instance.

In claim 26, line 48, delete "permeate-collection" and substitute --permeate collection --.

In claim 26, line 63, delete "between".

In claim 29, column 35, line 32, delete the first and second instance of "a," and substitute -said-- for each instance.

In claim 29, column 35, line 36, delete "permeate-collection" and substitute --permeate collection--.

In claim 29, column 36, line 7, delete "between".

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr Box 401, 40 King Street West Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.